ARC InstaTemp™

Non-Touch Thermometer

User Manual

ARC Devices Ltd.

Copyright ARC Devices Ltd. 2015

Welcome to your new state of the art ARC InstaTemp™ digital infrared non touch thermometer! The ARC InstaTemp™ is a digital non-touch thermometer that measures and displays human body temperature. This device is intended for use by responsible adults at home.

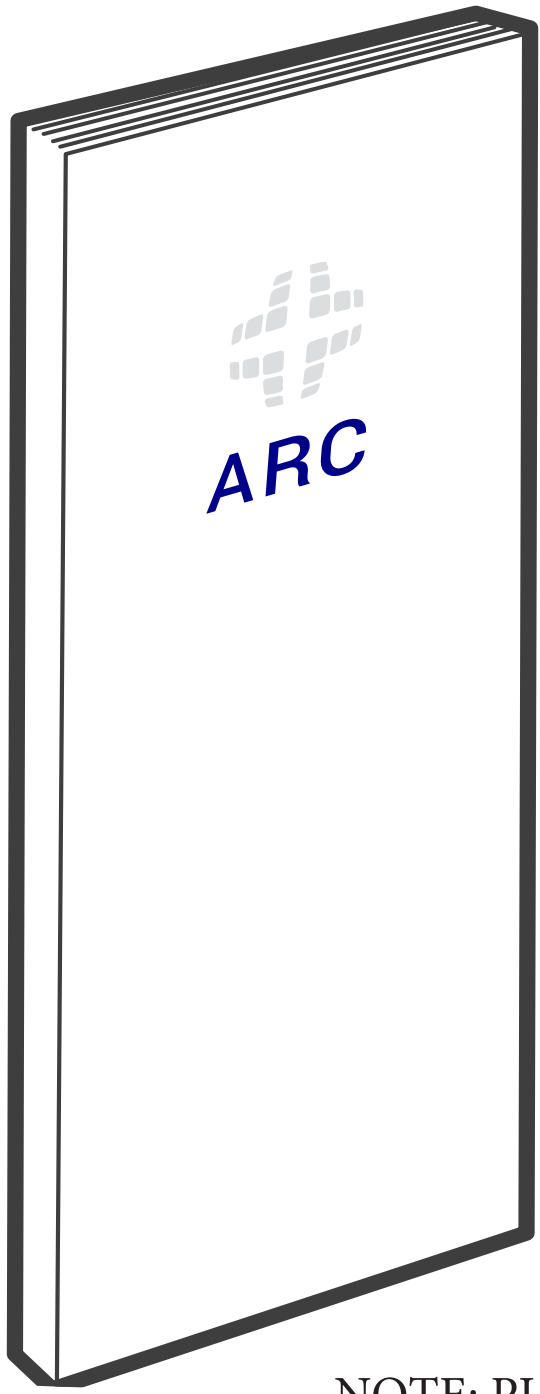
To ensure the best results with your ARC InstaTemp™ thermometer, please be sure to read the following operational and procedural manual carefully. If you give this device to another adult, it is vital that you also pass on this user manual.

The ARC InstaTemp™ is a sophisticated technologically advanced electronic medical device that has been carefully engineered to quickly and accurately measure human body temperature without requiring any contact with the human body. Do not use this device for any other purpose. Only use ARC InstaTemp™ in ambient temperatures ranging from 50-104°F (10-40°C). The thermometer and person must remain in a place with no change in room temperature and away from ventilation sources and heat sources for at least 20 minutes before measuring temperature.

GETTING TO KNOW

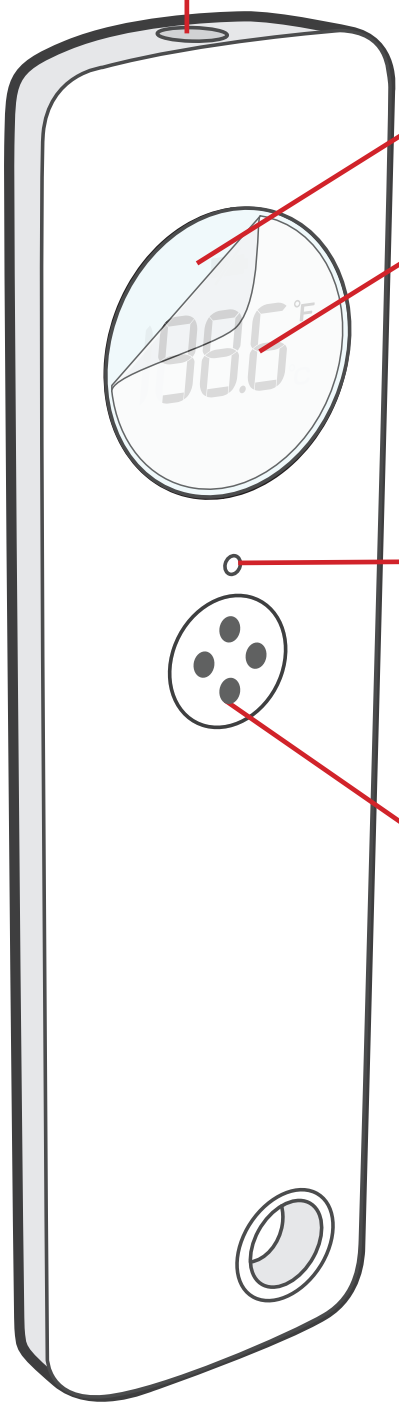
The ARC InstaTemp™

Manual



NOTE: PLEASE READ
PRECAUTIONS BEFORE
OPERATING
ARC InstaTemp™

ARC InstaTemp™



Infrared Sensor

Backlit LCD Display Screen

Remove protective label prior to commencing operation.

Temperature Range Indicator Light

Activation Button

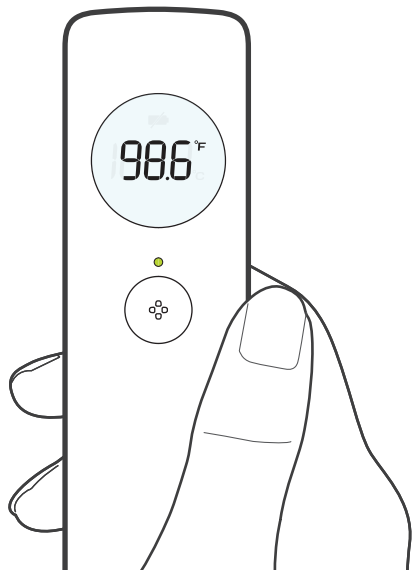
Internal non- removable, non-replaceable, batteries are included

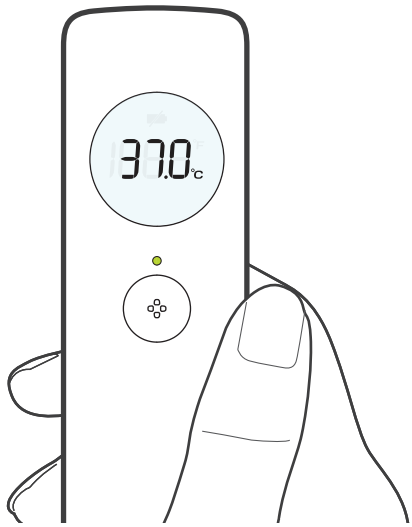
Features

1. Quick and accurate body temperature measurement
2. LCD screen with backlight for ease of use in the dark
3. Temperature shown in either Fahrenheit (° F) or Celsius (° C)
4. The temperature reading will be displayed on screen for 4 seconds
5. Turns off automatically when not in use
6. Fast temperature readings that meet the ASTM standard
7. LED display temperature range indicator system: Green, Orange, Red.
8. Low battery indicator

OPERATION:
CHANGING °F TO °C

ARC InstaTemp™ is set to Fahrenheit by default.
To change to Celsius, follow these simple steps:





Press and release the activation button to get a reading. Once the reading appears on screen in Fahrenheit, press and release the activation button again —the reading will automatically change to Celsius. Repeat to change back.

OPERATION:
TAKING A TEMPERATURE

1

Before attempting to take a temperature reading:

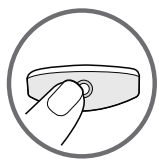
Remove protective label prior to operation

Move hair away from the path of the sensor.

Wipe perspiration from the forehead, if apparent

Ensure that the person has been in the room for 20 minutes.

Do not measure the person's temperature immediately after he/she has been exposed to really cold or hot climates, or has drunk a hot or cold liquid as it may temporarily change the surface temperature of the skin. In these instances, wait 20 minutes before taking a temperature reading



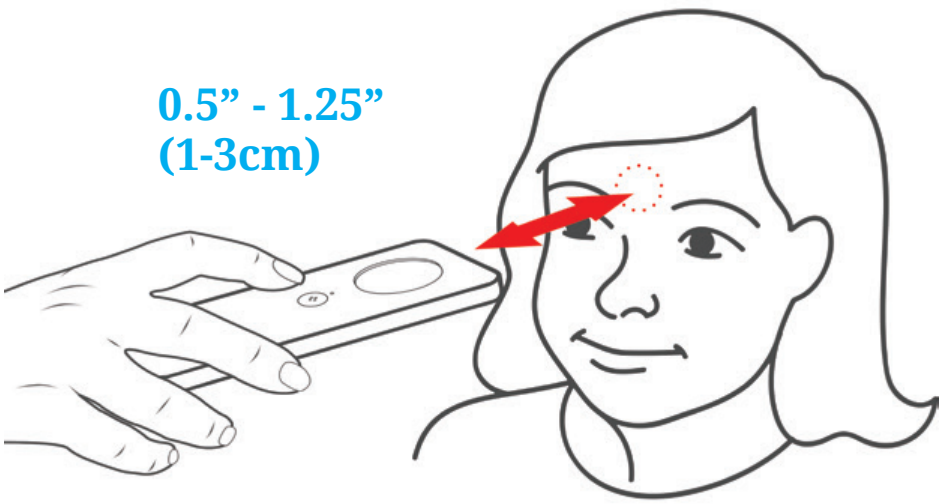
Do not touch the lens of the sensor. It is the most delicate part of the ARC InstaTemp™

OPERATION:

TAKING A TEMPERATURE

2 Point the thermometer at the person as shown below. Ensure the device is 0.5-1.25 ins (1-3 cm) from the forehead, above the eyebrows and between the eyes.

ARC InstaTemp™ must be held steady, perpendicular to and pointing directly at the center of the forehead at the area above the eyebrows and between the eyes when taking a temperature.

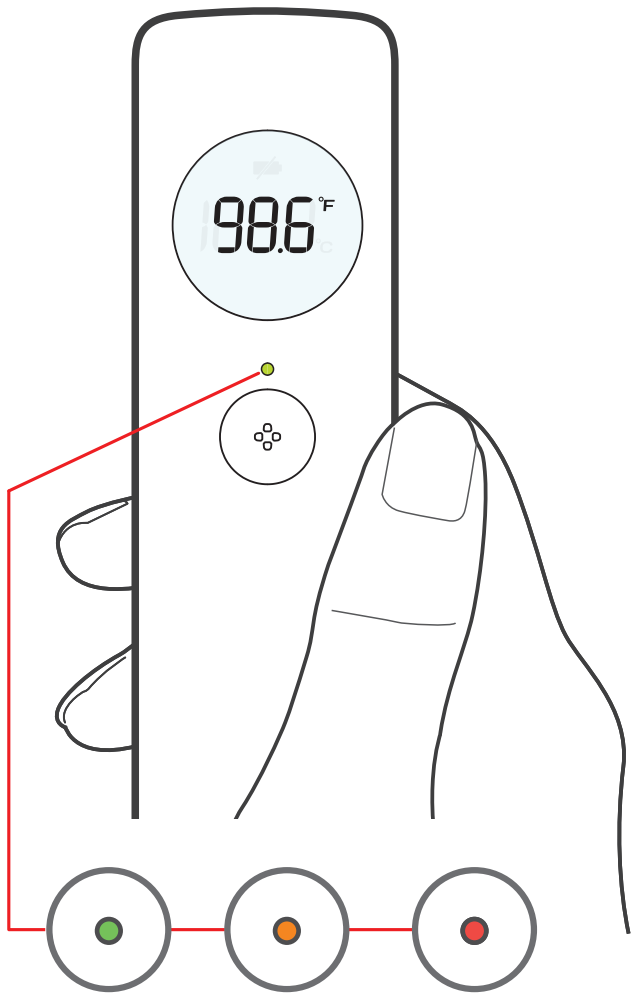


Point and Click

Hold the ARC InstaTemp™ in position, and press and release the activation button once, simply point and click. Hold the thermometer in position until the display is illuminated and a temperature reading is displayed on the screen.

OPERATION:
TAKING A TEMPERATURE

3 The temperature reading will be displayed for 4 seconds.



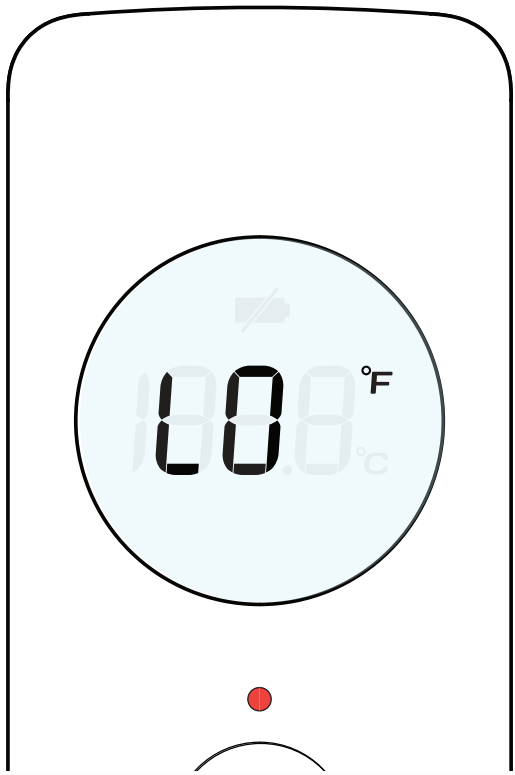
Temperature Range Indicator System

4 The temperature range indicator will be green, orange or red depending on the temperature measurement detected.

Should you wish to take a second reading, wait for 5 seconds and repeat.

Do not hold the activation button between measurements.

UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

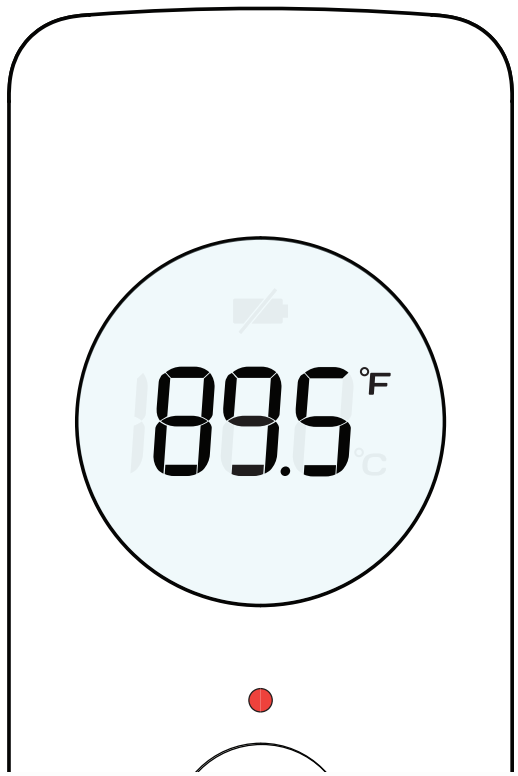


<89.5°F

<32°C

The thermometer measured a temperature <89.5°F (<32°C). The temperature range indicator is red and LO is displayed.

UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

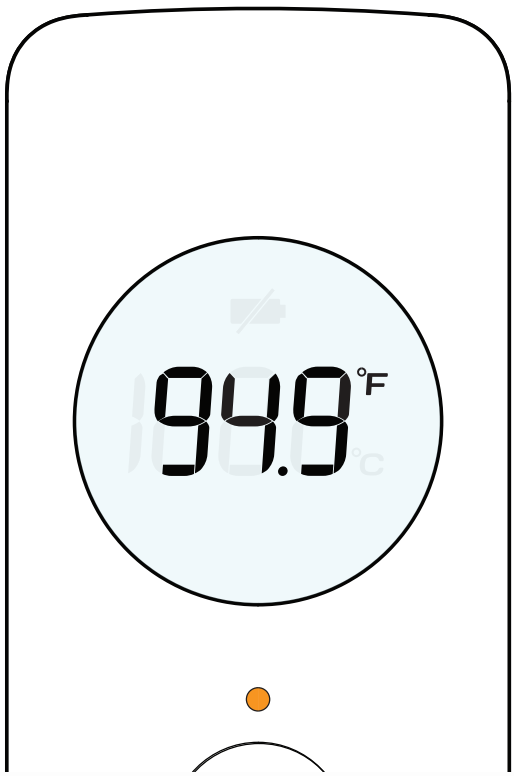


>89.5°F – ≤94.9°F

>32.0°C – ≤34.9°C

The thermometer measured a temperature ≥89.5°F – ≤94.9°F (≥32.0°C - ≤34.9°C). The temperature range indicator is red and a temperature reading is displayed.

UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

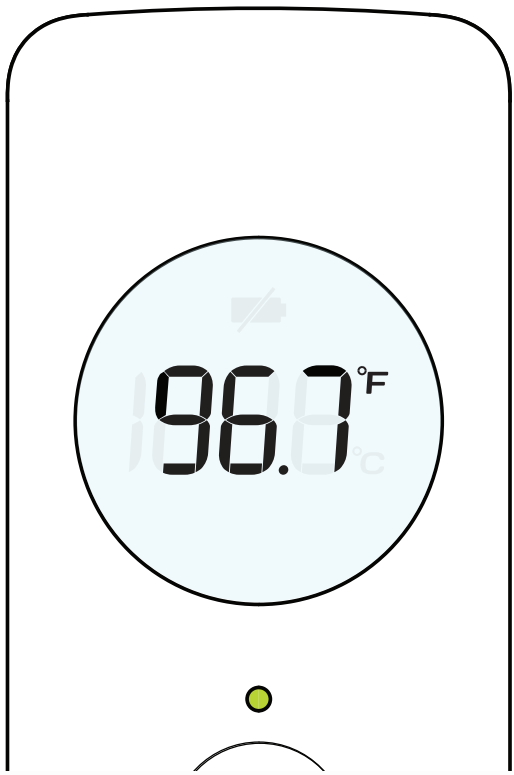


>94.9ºF – ≤96.7ºF

>35.0ºC – ≤35.9ºC

The thermometer measured a temperature ≥95.0ºF – ≤96.7ºF (≥35.0ºC - ≤35.9ºC). The temperature range indicator is orange and a temperature reading is displayed.

UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

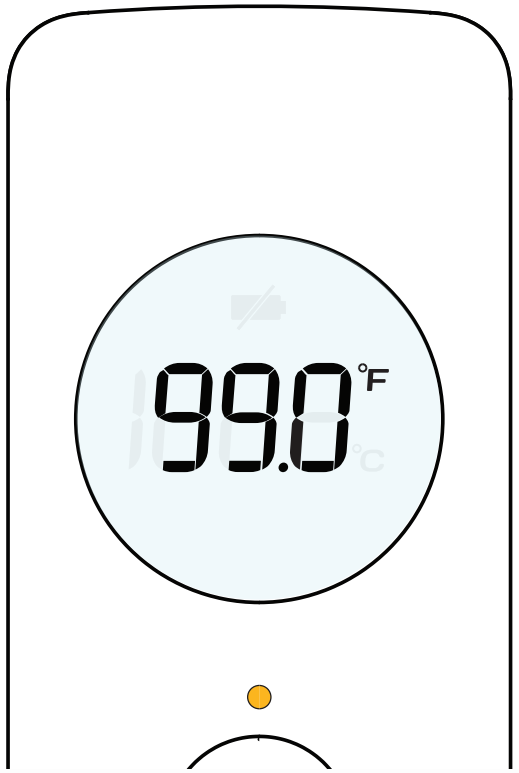


>96.7°F – ≤99.0°F

>36.0°C – ≤37.2°C

The thermometer measured a temperature ≥96.8°F – ≤99.0°F (≥36.0°C - ≤37.2°C). The temperature range indicator is green and a temperature reading is displayed.

UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

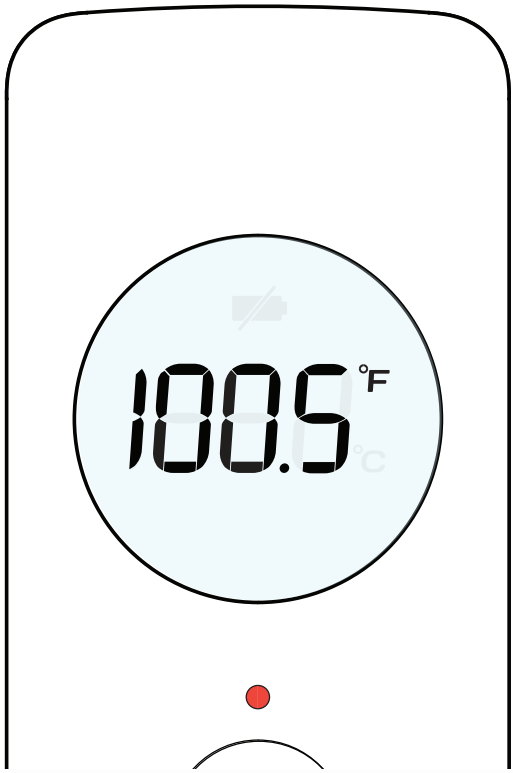


>99.0ºF – ≤100.5ºF

>37.3ºC – ≤38.0ºC

The thermometer measured a temperature ≥99.1ºF – ≤100.5ºF (≥37.3ºC - ≤38.0ºC). The temperature range indicator is orange and a temperature reading is displayed.

UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM

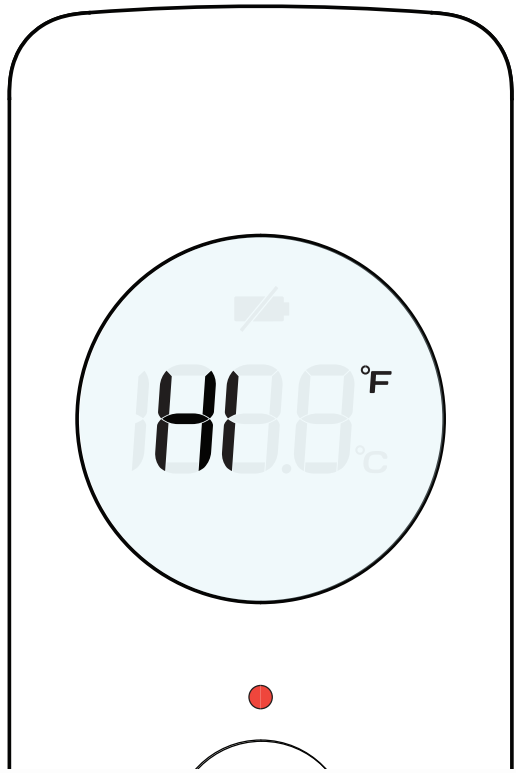


>100.5ºF – ≤109.1ºF

>38.1ºC – ≤42.8ºC

The thermometer measured a temperature ≥100.6ºF – ≤109.1ºF (≥38.1ºC - ≤42.8ºC). The temperature range indicator is red and a temperature reading is displayed.

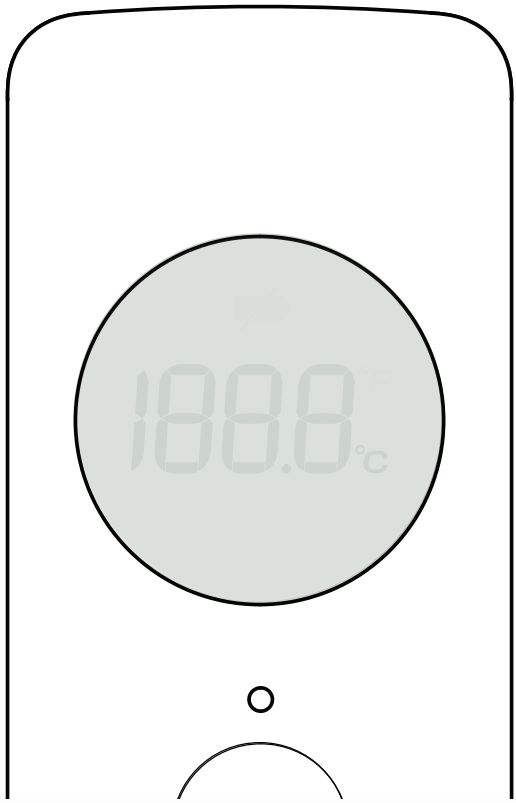
UNDERSTANDING THE TEMPERATURE RANGE INDICATOR SYSTEM



>109.1ºF

>42.8ºC

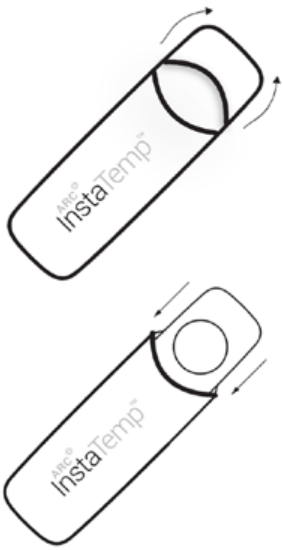
The thermometer measured a temperature >109.1ºF (>42.8ºC). The temperature range indicator is red and HI is displayed.



Sleep Mode

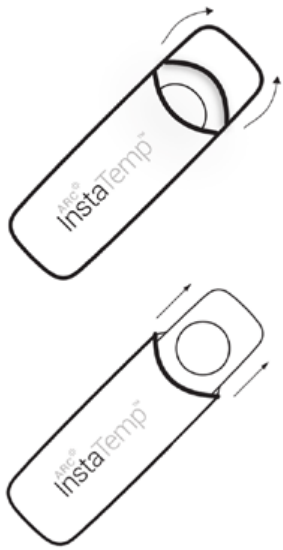
After 4 seconds the backlight, LCD display and temperature range indicator turn off and the thermometer powers down.

To insert the ARC InstaTemp™ into the neoprene carrying case.



1. **Pull the hood of the case back.**
2. **Remove the device by holding it on its sides, and slide it into the case, such that the LCD screen is slightly visible.**
   Do not touch the sensor.
3. **Cover with the hood and store in a dry place.**

To remove the ARC InstaTemp™ from the neoprene carrying case.

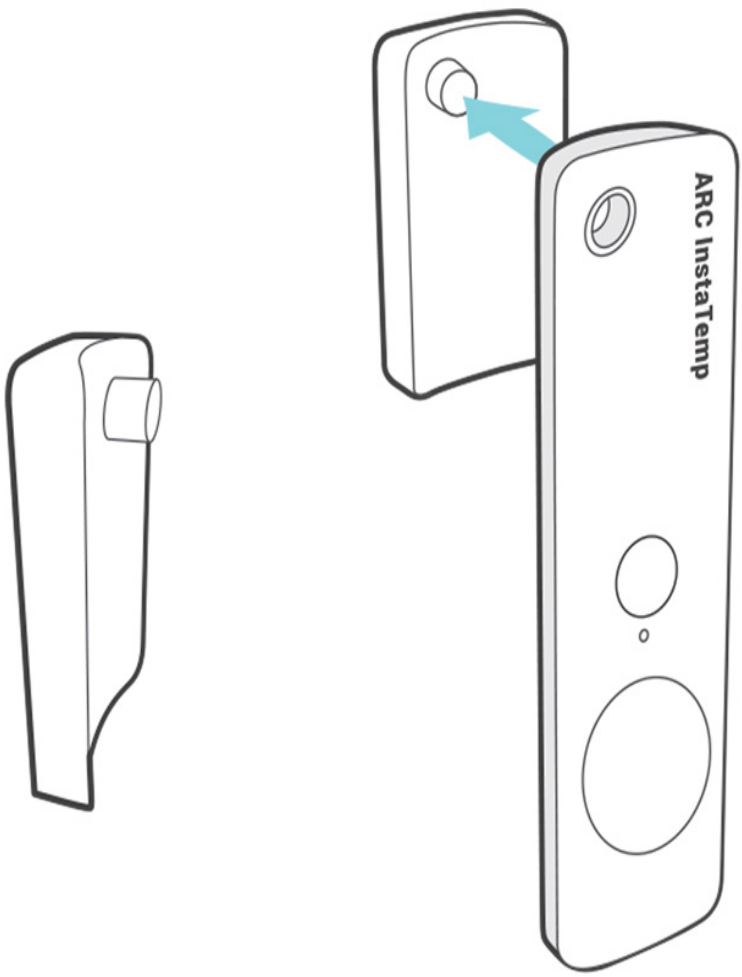


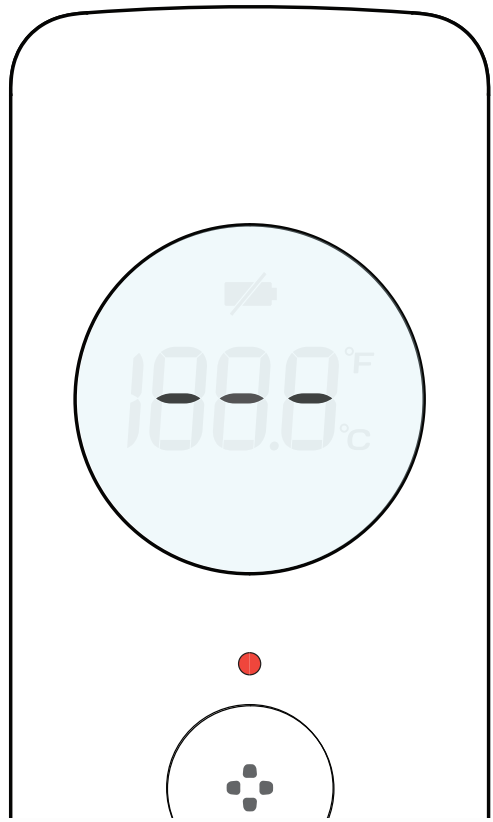
1. **Pull the hood of the neoprene case back.**
2. **Grab the ARC InstaTemp™ on its sides and pull out of the case.**

GETTING TO KNOW

Wall Mount (If accessory is included)

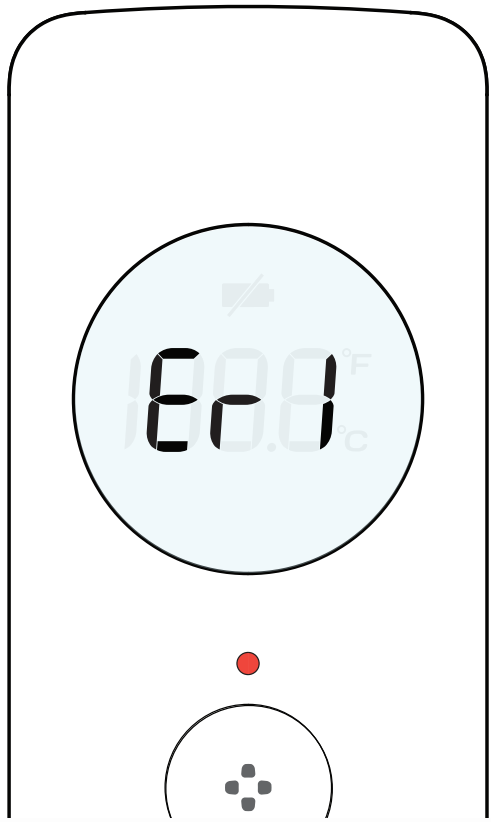
The wall mount can be attached to any smooth vertical surface using its adhesive pad on the rear of the wall mount. Because it is magnetic, the wall mount can also be attached to any metal surface. The internal magnet also keeps the ARC InstaTemp™ gently attached to the wall mount.





3 dashes (---)
Red temperature range indicator light

This indicates an invalid reading. This is due to incorrect usage, such as trying to measure a temperature above or below the thermometer's operating range or also due to a indeterminate reading. Repeat the temperature measurement as described in the section titled 'TAKING A TEMPERATURE'.

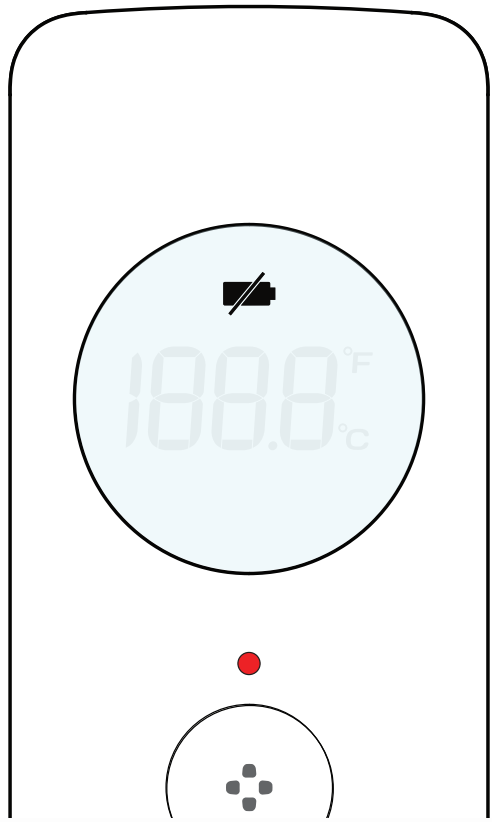


Er message

Red temperature range indicator light

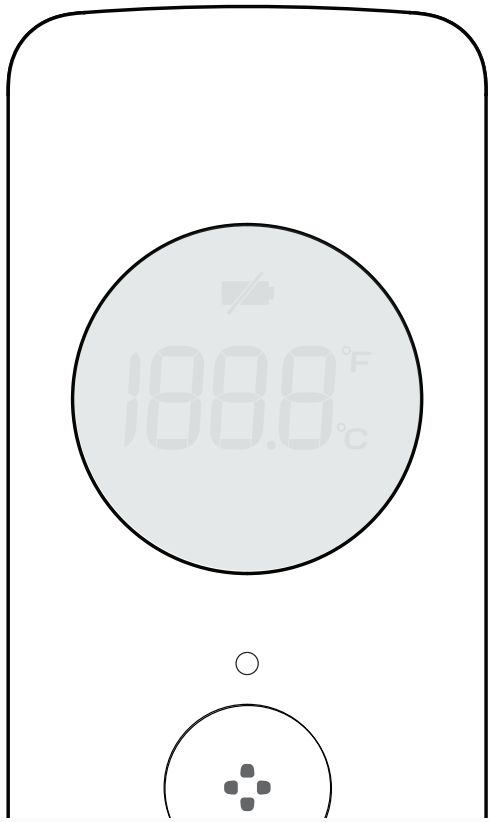
An Er message indicates an internal problem with the thermometer.

If an Er message appears, contact your product supplier and/or www.arcdevices.com.



Low battery symbol
Red temperature range indicator light

The thermometer battery capacity is too low to take a reading and your thermometer needs to be replaced.



No function, no display when activation button is pressed

The battery has depleted and can no longer take a temperature reading. Your thermometer needs to be replaced.

PRECAUTIONS

Essential safety steps to be read and noted before use:

• Read this manual and always follow the instructions as specified when using the ARC InstaTemp™.

• Using this thermometer is not a substitute for consulting your physician.

• The ARC InstaTemp™ and the person must remain in a stable climate for at least 20 minutes before a reading can be taken. Do not measure the person's temperature immediately after he/she has been exposed to really cold or hot climates, or has drunk a hot or cold drink. In these instances, wait 20 minutes before taking a temperature reading. Do not apply any hot or cold compress, cloth or gel based, on the person's forehead prior to the measurement for at least 20 minutes.

• Do not drop, tap or shake the ARC InstaTemp™ thermometer. It is a precision device and any damage may result in an inaccurate reading.

• The temperature in the forehead area differs from the internal temperature, which is taken orally or rectally. Vasoconstriction, an effect which constricts the blood vessels and cools the skin, can occur in the early stages of a fever. In this case the person's temperature may be unusually low.

• Only use the ARC InstaTemp™ in climate temperatures ranging from 50-104°F (10-40°C).

PRECAUTIONS

Outside of this range a "---" will be displayed when a measurement is taken, repeat the measurement inside the 50-104°F (10-40°C) range after waiting at least 20 minutes. Do not subject the ARC InstaTemp™ to temperatures above 104°F (40°C) or below 45°F (7°C).

• Do not use outside or close to a heat or cooling source. Using the thermometer in these conditions may affect the accuracy of the temperature reading.

• Do not allow the ARC InstaTemp™ thermometer to become damp or immersed in water or other liquids.

• Do not touch the lens of the infrared sensor. The sensor is the most important and sensitive part of the device.

• Do not attempt to measure body temperature with the thermometer if:

a) The thermometer has been exposed to extreme conditions.

b) It has been exposed to electric current or electromagnetic fields.

c) It has been exposed to moisture.

d) It has been dropped or shows any signs of damage or malfunction.

e) If there is any visible dust or dirt on the device lens or in the device lens opening.

• Do not attempt to fix or repair the thermometer yourself.

PRECAUTIONS

•Do not attempt to replace the internal batteries, The internal batteries are non-removable, non-replaceable and non-serviceable.

• Do not open the thermometer casing.

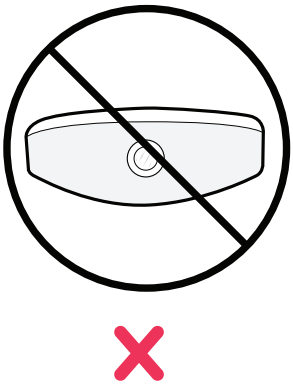
•If the device touches or comes in contact with the person;

a) Do not take a measurement for 5 minutes,

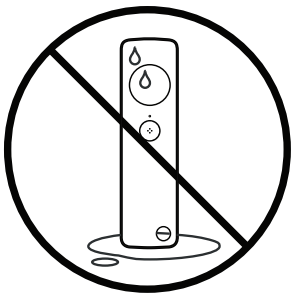
b) Check the device lens and opening for contaminants,

c) To clean the device please use a standard IPA wipe.

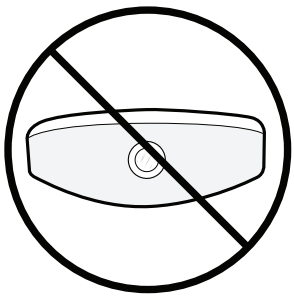
CLEANING



Do not touch the lens of the sensor. It is the most delicate part of the ARC InstaTemp™ thermometer and must be protected from dirt and damage.



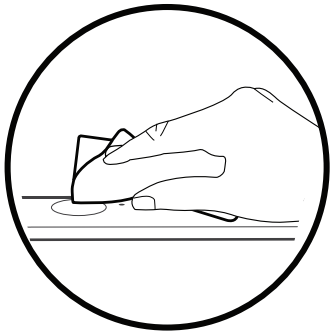
Do not immerse the ARC InstaTemp™ in water or other liquids. It is not water resistant.



Take care not to scratch the lens of the sensor, the display or the housing.

Never use aggressive cleaning agents.

CLEANING



Clean the thermometer using an IPA wipe.

DISPOSAL

This symbol means that according to local laws and regulations your product should be disposed of separately from household waste.

Please note this product contains batteries and magnets and therefore must be disposed of according to local laws and regulations. Do not dispose of this product in a fire as batteries may explode when exposed to excessive heat.

When this product reaches its end of life, take it to acollection point designated by local authorities. Some collection points accept products for free.

DISPOSAL

The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. Consult your municipal authority or your dealer for information about disposal.

INFORMATION

The ARC InstaTemp™ non-touch Infrared Thermometer is a fast, accurate and non-intrusive device for measuring a person's temperature. This device is intended for home use only. Point the thermometer at the person. Ensure the device is 0.5–1.25 ins (1-3cm) from the forehead. Press and release the activation button once and hold the thermometer in position until the backlight illuminates; a temperature reading is displayed. The ARC InstaTemp™ is fast, accurate and designed to allow the person to rest undisturbed.

The ARC InstaTemp™ must not come into contact with a person when measuring temperature. The ARC InstaTemp™ thermometer cannot take an accurate body temperature reading from anywhere other than the forehead and should not be used to do so. This

INFORMATION

product is intended for household use only. Use of this thermometer is not intended as a substitute for consultation with your physician.

ICON IDENTIFICATION

This instruction manual belongs to this device. It contains important information about starting up and operation of the thermometer. Read the instruction manual carefully as non-observance of these instructions can result in serious injury or damage to the device.

Manufacturer

Caution: consult section titled ‘Understanding the Temperature Range Indicator System’ and ‘Taking a Temperature’.

ICON IDENTIFICATION

Degree of protection against electrical shock; there is no conductive connection to the person; Type BF Protection.

DIRECTIVE 2012/19 EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE).

TECHNICAL SPECIFICATION

Name and Model

ARC InstaTemp™

Display System

Digital display (LCD) with backlight

Temperature Range

89.5–109.1°F (32.0–42.8°C) Lo and Hi are displayed outside this range “---“ displayed for an indeterminate reading or use of the device outside its ambient temperature range

TECHNICAL SPECIFICATION

Operating Temperature
Operational in 50-104°F (10-40°C) environment. Allow 20 minutes for the device to settle for each 5°F change outside the operational environment.

Storage/Transport Temperature
Please store the device within the temperature range: 45 to 90°F (7-32°C) .

Measurement Accuracy (Laboratory Error)
ASTM laboratory accuracy requirements in the display range 98.6°F to 102.2°F (37.0°C to 39.0°C) for IR thermometers is +/-0.4°F (+/-0.2°C) within the operating temperature range of 59°F to 95°F (15°C to 35°C) per ASTM standard 1965-98. Whereas for Mercury in glass and electronic thermometers, the requirement per ASTM Standards E667-86 and E1112-86 is +/-0.2°F (+/- 0.1°C).

Temperature Display
Units °F or °C (user selectable)

Response Time
<1 second from press of scan button

TECHNICAL SPECIFICATION

Measurement Display Time
4 sec ± 0.5 seconds before automatic shutdown

Automatic Switch Off
After the display period is complete, the ARC InstaTemp™ will automatically shutdown to conserve measurement lifetime

Power Supply
Contains (2) AAAA Alkaline Batteries – internal, non-replaceable

Battery Life
Approx. 7,500 measurements

Thermometer Size
1.37ins x 0.55ins x 5.08ins
(34.8mm x 14.0mm x 129.0mm)

Weight
1.94oz (55gm)

Electromagnetic Compatibility
This device complies with the EN60601-1-2 standard for electromagnetic compatibility.

WARRANTY

The ARC InstaTemp™ thermometer has a limited two year warranty. Should service be required during or after the warranty period, you must call ARC InstaTemp's™ Customer Service Department at 561-288-6508 to obtain a return authorization number and shipping address. Repackage the thermometer carefully in its original packaging or securely packed to avoid damage during shipping. Include the original sales slip indicating the date of purchase, a note describing the problem, your authorization number, and your return address.

Send the ARC InstaTemp™ thermometer prepaid and insured. Answers to any question regarding operation of the ARC InstaTemp™ thermometer may be obtained by calling us at: 561-288-6508
Monday-Friday 8:00 AM to 5:00 PM ET

WARRANTY

Limited two year warranty

ARC Devices warrants this product against any defects that are due to faulty material or workmanship for a period of two years from the original date of consumer purchase. This warranty applies when used for normal household use in accordance with the Use and Care Manual and excludes the battery and damage to the product resulting from accident or misuse. This product is not warranted when used in a professional environment. In no event shall ARC Devices be liable for any special, incidental, indirect or consequential damages in connection with the purchase or use of this product or costs over the original cost of the product. If the product should become defective within the warranty period, contact ARC Devices' Customer Support Department. at 561-288-6508 for repair or replacement at no charge. ARC Devices reserves the right to replace a defective product with the most comparable product currently available. While this warranty gives you specific legal rights, you may also have other rights which vary from state to state or province to province.

ARC Devices

ARC Devices Ltd
2 Deerpark Industrial Estate
Oranmore
Co. Galway
Ireland

Phone: +353 91 398 191
info@arcdevices.com
www.arcdevices.com

In accordance with our policy of continual product improvements we reserve the right to make technical changes to the product without notice.

Distributed by
ARC Devices USA, Inc.
1200 N. Federal Hwy, Ste 207,
Boca Raton, FL 33432
USA

561-288-6508

PT-100174 Revision 01